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Pride in our Past
Faith in our Future

1865-1965

WORCESTER POLYTECHNIC INSTITUTE

Vol. LV

Worcester, Massachusetts, Thursday, February 25, 1965

Number 17

The Tech News

MARCH 16 DESIGNATED TO HONOR DR. GODDARD

Recently the U. S. Senate passed a bill, sponsored by Senator Leverett Saltonstall, R-Mass., to designate March 16 as Robert H. Goddard Day. The Bill was then sent to the House for approval. Representatives Harold D. Donohue and Philip J. Philbin pledged that they will seek an early House approval of the legislation with the hope that it may become law before the ceremonies planned by Tech to honor the late Professor Goddard. Congressman Donohue declared in a statement released by his office, "I will make every effort to secure committee and House approval so the legislation can be a part of Worcester Polytechnic Institute's ceremonies to honor Dr. Goddard."

The date, March 16, is significant in that it was on this day in 1926 that Goddard launched the first scientific oriented rocket from a field near Auburn, Mass.

Congressman Philbin commented that, "Goddard is to modern rockets what Edison was to the Electric light, and Marconi was to electronic communication . . ." He also stated that, "I am anxious to perpetuate Goddard's life's work and achievements . . . There is a tremendous significance attached to his work that I think is not generally realized. It suffices to say that it is a great feather in the cap of our great Worcester Polytechnic Institute and also our country and state because Goddard is an immortal whose name has brought and, for centuries to come, will bring luster on his alma mater, his state, and nation."

At today's assembly twenty-four of the outstanding members of Tech's Senior Class were selected for "Who's Who" in 1965. "Who's Who in American Colleges and Universities" is a national honorary society whose members have manifested qualities of both leadership and scholarship during their college years.

The quota for each college is decided upon by the national society, and is figured on a percentage of the national college enrollment. The list of candidates from Tech is drawn by the Tech Senate and the Council of Presidents, and is then voted upon at the Tech Senate by a preferential ballot.

Members of "Who's Who" are recommended to prospective employers by a placement bureau, which is one of the functions of the organization. They also receive a bound volume of "Who's Who in American Colleges and Universities", and a certificate and recognition key.

The following twenty-four Tech Seniors have been selected to appear in "Who's Who" for 1965:

Philip Ivan Bachelder
Nicholas Joseph Barone
Frank Arthur Benham
Robert Henry Cahill
Philip Donald Giantris
Ronald George Greene
Raymond Cecil Jacques
Robert Edward Hawes
John Francis Kelley, III
Richard Barton Kennedy
Robert Douglas Klauber
John Ralph Lewis
William Edwin Lightfoot
Allan Winthrop Low, Jr.
Harry Astour Mildonian, Jr.
George William Mitschang
Patrick Thomas Moran
Stephen Norman Rudnick
Philip Browne Ryan
David Stanley Sawicki
Robert Crosley Stow
Anton John West, Jr.
William Eric Zetterlund

Interfraternity Council Offers New Constitution

In order to serve the student body and the fraternities, the Interfraternity Council has proposed a new constitution for adoption of the member houses.

This new constitution will give the council more power by including the presidents of each house on it. Each house will then have one other representative. The officers elected will be from the group of representatives other than the presidents of the respective fraternities.

Membership will also be enlarged. Previously the membership included only the local chapters of National Fraternities. Now it is intended that any local fraternity will have representatives on the council also.

It was felt that the office of vice-president was unnecessary and they have now proposed that only three officers, President, Secretary and Treasurer, be elected. These men will be elected in March. The president will come from the junior class and the other two officers from either the sophomore or junior class. As in previous years the faculty advisors will be elected; one whose position will be to coordinate the rushing program.

Perhaps the newest and most important amendment will be that concerning the voting procedure. Previously all measures were presented and could not be voted on until the following week, after each representative had taken the motion back to his house. Now only those motions dealing with rushing procedures, expenditures of more than \$50, or when one member requests so will be brought to the house for approval. However there is still the two-thirds majority required for passing of any measure.

In reading the constitution one

might feel that it is, at times, rather general and you will notice that the various committees such as the judicial and social were dropped. It has been assured, however, that these matters will be dealt with later.

Tech Professors Seek Election

On March 1, 1965 Worcester Tech's Dean Morton will be running for his second successive term for School Committeeman of Shrewsbury, Massachusetts. As a resident of Shrewsbury for the past twelve years, the Dean has simultaneously held the positions of Chairman of the School Committee and town meeting member since 1962, while concurrently serving in the capacity of Professor of Physics, Associate Dean of the Faculty, and Director of Summer and Evening Programs here at W.P.I.

The Dean explained that the function of the School Committee as a whole lies in its policy-making nature for the town's entire school system. Ultimately, the Committee is directly responsible for the hiring of new teachers, the establishing of a school curriculum, and the planning for new school buildings. Presently, the Shrewsbury Committee is in search of a school superintendent—what the Dean calls "the biggest responsibility of a School Committee." He further explained that most towns (especially his own) are more than willing to appropriate money for schools when they know exactly what they are paying for. As chairman of the committee, Dean Morton not only presides over the group but also acts as its spokesman. For example, he is responsible

VIET NAM: Avert War Or Maintain Our Position

There are two sides to the Viet Nam question. One, advocated by the Clark students in their demonstration of February 13, is that the United States try to reach a settlement and avert a major war. The other side is that of the military, stating that it's imperative for us to maintain our position rather than give the Communists a chance to advance their cause.

The Campus Peace Committee of Clark resorted to the demonstration to make the average citizen aware of our difficult position, and urge them to make a plea for settlement.

Four hundred educators have written an open letter to President Johnson, among them David Todd and Bernard Howard. It asks for an explanation of American policy and to name our allies. The letter also suggests that it might be the right time for the U. S. "to take the initiative towards peace."

It states that the assumptions on which the United States agreed to bolster the military strength of South Viet Nam are no longer

valid. The letter says, "our presence seems to deepen rather than to relieve the bitterness and hostility of the people." The educators close by asking if it would "not be both prudent and just to take the initiative towards peace in Viet Nam? If we are not to widen the war beyond all conscience, as reasonable men must initiate negotiations while there is still time."

MSgt. M. E. Cushing, a ROTC instructor, is, on the other hand, in complete agreement with the U. S. policy. He says that Viet Nam is a true dilemma. There is so much involved, other than guerilla warfare. Economic, political, and psychological factors all enter into the complex problem.

(Continued on Page 7)

Communist China has but one goal, to take over Laos, Cambodia, Thailand, and Viet Nam and thus control Southeast Asia. Any means, either over the conference table or through war, is adequate provided they attain their goal. Their plan, up to now, has been to orientate and organize the people and then to cause an insurrection.

Laos and Cambodia are neutral and the Communists are in the third stage of their plan in Viet Nam. Even now they are starting to orientate the people of Thailand.

Sgt. Cushing feels that if we lose Viet Nam and the other three South Asian nations, our way of life will be endangered. Our strongest ally, Japan, would be ringed by Communist controlled countries. The Philippines and Malaysia would fall next under the onslaught, and then the road to Hawaii would be open. Therefore, we are not only in Viet Nam to help the people, but also to protect ourselves and our way of life.

SEE DETAILS
page 3

DATE SET FOR FINANCIAL AID

Application for Student Financial Aid, which includes Institute and Industrial Scholarships, National Defense Student and Institute Student Loans, and Campus employment, must be submitted by Monday, March 15, 1965. Interested students may pick up application forms and Parent's Confidential Statement Renewal Form from the receptionist at the Office of Admissions, Boynton Hall.

The Parent's Confidential Statement Renewal Form must be submitted to the College Scholarship Service, Princeton, New Jersey before March 15, 1965. The College Scholarship Service is a new college-wide program to assist schools in determining student financial need. The form that the student's parents must fill out is long and complex. It would be best to obtain these forms from the receptionist and send them home as soon as possible.

All financial aid is based upon the student's college record, proof of need, and evidence of self-help. Applicants should return applications in person and arrange for a brief conference with a member of the staff of the Dean of Student Affairs Office. Check bulletin boards for additional information.

A Few Questions

**The Tech News Staff
Congratulates the Who's Who
Winners for 1965.**

Couth Column



JUNIOR PROM

APRIL 23 & 24

WHO'S WHO AT W.P.I. 1965



PHILIP IVAN
BACHELDER



NICHOLAS JOSEPH
BARONE



FRANK ARTHUR
BENHAM



ROBERT HENRY
CAHILL



PHILIP DONALD
GIANTRIS



RONALD GEORGE
GREENE



RAYMOND CECIL
JACQUES



ROBERT EDWARD
HAWES



JOHN FRANCIS
KELLEY, III



RICHARD BARTON
KENNEDY



ROBERT DOUGLAS
KLAUBER



JOHN RALPH
LEWIS



WILLIAM EDWIN
LIGHTFOOT



ALLAN WINTHROP
LOW, JR.



HARRY ASTOUR
MILDONIAN, JR.



GEORGE WILLIAM
MITSCHANG



PATRICK THOMAS
MORAN



STEPHEN NORMAN
RUDNICK



PHILIP BROWNE
RYAN



DAVID STANLEY
SAWICKI



DAVID MARTIN
SCHWABER



ROBERT CROSLY
STOW



ANTON JOHN
WEST, JR.



WILLIAM ERIC
ZETTERLUND

Twenty-four seniors have been nominated to the 1964-1965 edition of "Who's Who Among Students In American Universities and Colleges." Destined to appear in that publication are the names of the following Techmen:

Philip Ivan Bachelder, A Ch. E. from Athol, Mass. and a brother of Sigma Phi Epsilon. He is an active member of Tau Beta Pi, the Chemical Honor Society, the Skull, Pi Delta Epsilon, and Alpha Psi Omega.

Nicholas Joseph Barone, president of Phi Gamma Delta and treasurer of Tau Beta Pi, is a Ch. E. from Woodbridge, Conn. and during his four years was active in the Chemical Honor Society, the Skull, the Ski Club, the Newman Club, the A.I.Ch.E. and the Interfraternity Council.

Ronald George Greene, an E.E. major from Pawcatuck, Conn., besides being active in Pi Delta Epsilon, football and the Tech Senate, also served as Sigma Phi Epsilon's vice-president, treasurer of the Interfraternity Council, Glee Club president, manager of the swimming team and managing editor of the Tech News.

Raymond Cecil Jacques, corresponding secretary of Pi Tau Sigma and secretary of the A.S. M.E., is an M.E. from Avon, Conn. Holder of a letter in track and a brother of Sigma Alpha Epsilon, he has been a member of the Skull, the relay team, the Varsity Club and served on the Peddler staff.

Allan Winthrop Low, Jr., a brother of Sigma Phi Epsilon from Longmeadow, Mass. is a Ch.E. who has been a member of the Tech Senate, the A.I.Ch.E.

and is president of the Student Service Council.

George William Mitschang, president of Phi Kappa Theta and the Tech Senate, is from Glen Head, N.Y. and as a Physics major has found time for an active part in Tau Beta Pi, the Skull, Alpha Psi Omega, the Masque and the Newman Club as well as winning a letter in baseball. He also served as freshman and sophomore class treasurer and on the swimming team and was a member of the Varsity Club.

Patrick Thomas Moran, president of the Athletic Council and the Council of Presidents from Niagara Falls, N.Y., was co-captain of the football team and a member of the track team, the Varsity Club, the Newman Club, the Tech Senate, and the A.S.M.E. An M.E. major and brother of Phi Kappa Theta, he is also a R.O.T.C. Major and member of Pi Tau Pi Sigma and is on the staff of the Tech News.

Philip Browne Ryan, vice-president of Phi Kappa Theta and the senior class and president of the Hockey Club, comes from Holyoke, Mass. and as a C.E. major has been a member of the Skull, the Nautical Club, the Varsity Club, the Band, the Newman Club, the Tech Senate, the A.S. C.E. as well as serving on the Tech News staff, the Council of Presidents and as junior class vice-president.

David Stanley Sawicki, editor-in-chief of the Tech News, is a Nashua, N.H. C.E. active in the Skull, the Glee Club, the Newman Club and the Council of Presidents. A brother of Phi Kappa Theta, he is also vice-

president of Pi Delta Epsilon.

Robert Crosley Stow, a M.E. major from Westfield, Mass., is president of Alpha Tau Omega fraternity, and Pi Tau Sigma as well as vice-president of Tau Beta Pi. During his four years at Tech he has taken an active part in the Band, the Varsity Club, the Masque, the Protestant-Christian Fellowship and been a member of the Skull, the Student Service Council and the A.S.M.E. and has won a letter in tennis.

William Eric Zetterlund as president of Sigma Phi Epsilon, is an E.E. from Millbury, Mass. active in the Skull, the Varsity Club, the Council of Presidents and is letter holder in basketball and lacrosse.

Harry Astour Mildonian, Jr., a Sigma Phi Epsilon E.E. from Athol, Mass., has donated his efforts to the Ski Club, the Tech News, the Masque and the I.E. E.E. and serves as secretary of Eta Kappa Nu and Tau Beta Pi and has a letter in lacrosse.

Philip Donald Giantris, a brother of Phi Gamma Delta and a C.E. from Worcester, Mass., is captain of the swimming team, and R.O.T.C. Lieutenant Colonel and a member of Pi Tau Pi Sigma. He has also served as manager of the cross country team and been a member of the A.S. C.E.

Robert Edward Hawes, a Needham, Mass. Physics major, has been a member of the Varsity Club, the Newman Club, the Skull, the relay team, the Athletic Council and the Peddler staff. A brother of Alpha Tau Omega, he also holds letters in Cross

Country and track as well as serving as co-captain of the track team, Tech News sports editor, an R.O.T.C. Captain, and freshman, sophomore, junior and senior class secretary.

John Francis Kelley III, a brother of Sigma Phi Epsilon and a C.E. from Bridgton, Maine, is a member of the Skull, and the A.S.C.E., co-captain of the football team and holder of a lacrosse letter. He is also active in the Varsity Club, the Peddler, the Tech News and served as secretary of the Tech Senate and junior class president.

Robert Douglas Klauber, president of the senior class and sports editor for the Tech News, is a M.E. from West Springfield, Mass. who has been a member of the Skull, Pi Tau Epsilon, the Wrestling Club, and the Varsity Club. During his four years, this brother of Sigma Phi Epsilon has served the Tech Senate and as Junior Prom chairman, and holds a letter in lacrosse.

John Ralph Lewis, editor-in-chief of the Peddler and a Theta Chi Chemical Engineer from Attleboro, Mass. has been active in Pi Delta Epsilon, Pi Tau Pi Sigma, the A.I.Ch.E., the Council of Presidents and the basketball team.

William Edwin Lightfoot, president of Theta Chi, is a Stratford, Conn. M.E. major who is a holder of a swimming team letter and has given of his time to the Tech News, the Nautical Club, the Peddler and Pi Tau Epsilon.

Anton John West, Jr., a M.E. from Bethel Park, Penn. is a brother of Phi Sigma Kappa and

has been active on the football and track teams and a member of Tau Beta Pi, Pi Tau Sigma, the Varsity Club, and the Newman Club.

Robert Henry Cahill is a C.E. from Auburn, Mass. and as a brother of Phi Kappa Theta has been a member of the Nautical Club, the Newman Club, the Student Service Council, the A.S.C.E. and the Interfraternity Council. In addition, he has been a member of the lacrosse team and has served on the Tech News staff, the Tech Senate and as freshman and sophomore class president.

David Martin Schwaber, as a Ch.E. from Pikesville, Md. and a brother of Alpha Epsilon Pi has been active in the Bridge Club, the Student Service Council and the A.I.Ch.E.

Stephen Norman Rudnick who has served as junior and senior class treasurer is a brother of Alpha Epsilon Pi from Hartford, Conn., active in Tau Beta Pi, the Chemical Honor Society, and the A.I.Ch.E.

Richard Barton Kennedy, as the treasurer of the A.S.M.E. and business manager of the Tech News, is a Phi Kappa Theta M.E. from Rochdale, Mass. and has been a member of Pi Delta Epsilon, the Newman Club and the baseball team.

Frank Arthur Benham is the president of Chi Epsilon and the A.S.C.E. as well as vice-president of Alpha Tau Omega. A C.E. from Littleton, Mass., he has lent his efforts to Tau Beta Pi, the Nautical Club, the Masque, the Council of Presidents and the Interfraternity Council.

Two Fraternities Elect Officers



ALPHA EPSILON PI OFFICERS

A short while ago, the Epsilon Deuteron chapter of the Alpha Epsilon Pi Fraternity here at Tech held its election of officers for the next year.

The new President is Jay A. Segal, an Electrical Engineering major from New Rochelle, New York. Jay was rushing chairman for this past year and is the present athletic chairman. He succeeds Mike Shapiro.

Succeeding Ed Siegal as Vice President is Joel S. Schoenholtz. Joel is a Civil Engineering major from Teaneck, N.Y., who has transferred to Tech from the University of Toledo.

Stephen R. Lubner, an Electrical Engineer from Silver Spring, Maryland, steps in as Treasurer. Steve is on the wrestling team

and is also a Junior editor of the Tech News.

Steve Kaiser, a Civil Engineer from Franklin, Mass., will fill the position of Social Chairman this year, succeeding Sid Kline. Steve is also the J.P. Band Chairman.

Michael B. Barr, a Chemical Engineer from Hull, is now the new House Manager. Mike is a compet for our basketball team.

John Sonne will fill the position as Steward, in charge of all the kitchen facilities. John, an Electrical Engineer from Utica, New York, was also a cheerleader.

Robert Levine will succeed Steve Boraks as the new Pledge Trainer. Bob is a Junior majoring in Electrical Engineering.



SIGMA PI OFFICERS

The annual election of officers at Sigma Pi found Pould Bujak as the new president. A native of Windham, Connecticut, Paul is a junior majoring in Chem. Eng. and a member of the A.I.C.H.E.

John Simonds, a sophomore Physics major, was elected vice-president. John is from Unionville, Connecticut.

The new secretary is Bob Michelin of Franklin, New Hampshire who is a sophomore majoring in E.E.

Dave Asquith from Monson, Massachusetts takes over as the new treasurer. As a sophomore Chem. Eng. Dave is a member of the A.I.C.H.E.

Other posts that were filled were sergeant-at-arms, Larry Pihl; pledge trainer, Phil Gaudette; house manager, Jeff Cheyne; and as "ex officio" task of the president, chaplain ritualist, John Simonds.

Pittsburgh Plate Glass Company

CHEMICAL DIVISION

Interview Date:
Tuesday, March 2

Opportunities available in six plants:

- Barberton, O.
- New Martinsville, W. Va.
- Lake Charles, La.
- Corpus Christi, Tex.
- Bartlett, Calif. and
- Beauharnois, Quebec, Canada

Producers of heavy industrial chemicals: Soda Ash, chlorine, caustic soda, anhydrous ammonia, titanium tetrachloride, barium, and other chlorinated products

Production, Development, Engineering, Maintenance, and Construction opportunities open for men in these categories:

- BS, MS, Chemical Engineers;
- BS, Mechanical Engineers;
- BS, Electrical Engineers;
- BS, Civil Engineers;
- BS, Instrument Engineer.

COME AND HEAR THE
FOLK SINGING GENIUS
of

THE JEFFERSONS

IN CONCERT

in

ALDEN MEMORIAL AUDITORIUM

at

WORCESTER POLYTECHNIC INSTITUTE

Friday, February 26, 1965

8-10 P.M.

ADMISSION AT THE DOOR

\$1.50 PER COUPLE

\$1.00 PER INDIVIDUAL

The Naval Oceanographic Office needs engineers as well as oceanographers for its long-range research program

The sharply-increased emphasis on finding ways of exploiting "inner space" has opened new and broadened opportunities involving the design, development, testing and evaluation of electronic, mechanical, electromechanical, and optical instruments and systems. Electronic engineers, mechanical engineers and engineering physicists carry out challenging assignments in modern laboratories, in managing systems development with industry, or conducting field experiments in ships, submarines and aircraft. So, when we speak of a long-range technical and scientific research program, we speak of a massive effort over the course of years in these important areas:

1/ General Oceanography—the physical, biological, chemical, and geological makeup of the oceans and ocean floor. Not only does this involve the study of waves, sea ice, tides and currents . . . but also the propagation of sound and sonar in the sea . . . the analysis of the sediments on the bottom as they might apply to undersea warfare . . . and biological reports on marine vegetation, animal life, and organisms with special regard to fouling and boring.

2/ Geophysical & Geodetic Surveys—on land and at sea. Analyses and measurements of gravity and magnetic fields to provide accurate positional data for the Navy (sites for missile range stations, air and marine navigation aids, etc.)

3/ Bathymetry—use of new precision electronic depth and location techniques to accurately portray ocean floor. Survey ships the world over are probing the ocean depths in the deepest regions of the world to improve nautical charts, and enlarge scientific understanding of heretofore unknown environmental elements.

4/ Oceanographic Instrumentation—involving the latest principles of electronics, optics, and nucleonics, EE's and ME's initiate and carry out contractual systems programs with industry, and perform hydrodynamic studies leading to the design of components for instrumentation.

5/ Information Processing—through the use of computer systems. Programming of statistical, scientific and technical data such as Loran navigational tables and survey coordinates . . . sea water densities . . . underwater sound velocities . . . dynamic depth and grid transformations.

6/ Cartography—including modern portrayals of charts, reports, and diagrams required for navigation by the Navy and Merchant Marine. Designing charts showing depths, contours of the ocean floor, channels and shoals, coastal topography, etc., with the aid of aerial photography and photogrammetric equipment.

From the foregoing it should be obvious that oceanographic research today and in the future offers a new horizon of opportunity for talents not ordinarily thought of as related. Among those talents needed immediately by the Oceanographic Office are Mathematicians, Physicists, Chemists, Meteorologists, Cartographers, Geophysicists . . . and Engineers of all kinds (Civil, Electronic, Mechanical and General). Openings exist at all levels, from recent graduates to recognized authorities in the \$8945 to \$13,445 range, with the full benefits of Career Civil Service.

You must have your degree, and a U.S. Citizenship. Other than these "musts", you should be able to offer an applied research capability in your specialty, and a willingness to spend a reasonable amount of time on field work involving travel.

ON-CAMPUS INTERVIEWS

Representatives from the Naval Oceanographic Office will be on campus Thurs., March 4th, 1965, Worcester Polytechnic Inst. Contact your College Placement Officer to arrange an interview.

U.S. Naval Oceanographic Office

SUITLAND, MARYLAND

(LOCATED JUST 7 MILES SOUTHEAST OF THE WHITE HOUSE)
AN EQUAL OPPORTUNITY EMPLOYER

The Clark University Winter Carnival

Presents

STAN GETZ

Saturday, Feb. 27, 3:00 P.M.

ATWOOD HALL
CLARK UNIVERSITY

Tickets, priced at \$2.50 and \$3.00 may be ordered by writing to Stephen Baehr, Box 37, Clark University



CAGERS STILL HOT; UPSET TUFTS, A.I.C.

Tuesday night, February 16, the Worcester Tech basketball team played host to the Jumbos of Tufts and copped their fourth victory in a row and eighth in 18 games by the score of 83-59.

Tech's McNulty employed a zone press that contributed to the downfall of the men from Medford, it being their eighth loss in 12 outings.

Tufts, down 38-28 at half-time, caught the Engineers with a cold hand and slowly crept back into contention. With 13 minutes left the visitors trailed by only three points, 42-39. This is where Tech used their press and it marked the beginning of the end for Tufts who simply did not know quite how to handle the situation. After three minutes of stealing errant Jumbo attempts to get over mid-court, Tech ran away with the game.

After wiping out a 6-2 deficit, Tufts took advantage of Tech mistakes and surged ahead 12-6. However, Tech tightened its man-to-man defense and with variations against Tufts switching defense began to find the range. The Engineers caught the Jumbos at the 10 minute mark when Don Lutz scored, followed by Bill Nim's basket on a sharp pass from Ray Rogers, and two charity throws, again by Don Lutz. Tech was now in command and never conceded the lead for the remainder of the game. The score at half-time was 38-28, Tech.

In the second half, the Tech-men seemed to have gone cold as they could only score twice in the first six minutes. Tufts, as a result, cut the gap to 42-39 at the 13 minute mark. It was then Tech's zone press that went into effect. It was Ray Rodgers, Larry Penoncello, and Don Lutz combining to shake up the offense and especially Tuft's guards, as they repeatedly stole the ball.

In these few minutes Tech had completely broken Tuft's spirit and from then on it was no show.

Sophomore Don Lutz was Tech's high man scoring 21 points, followed by Larry Penoncello with 16, and Captain Dave LaRue with 12. Ron McRobbie had 20 points to pace the visitors. Big Bill Nims led the way off the boards for Tech as he gathered in 15 rebounds.

TECH				TUFTS			
LaRue	6	0-0	12	Jac'sen	4	1-3	9
Rogers	3	1-1	7	McRo'le	8	4-7	20
Nims	4	0-1	8	Chaffie	8	1-2	17
Lutz	9	3-3	21	Nelman	2	1-1	5
Pen'ello	7	2-4	16	Speth	1	0-1	2
Sullivan	3	1-2	7	And'sm	0	1-1	1
Willis	1	0-0	2	Allern	0	0-0	0
Shaw	1	0-0	2	Tuff	0	0-0	0
Bobsein	1	0-0	2	Brun	1	0-0	2
Cannon	2	2-2	6	Nogly	1	1-1	3
Lawson	6	0-2	6				
Totals	37		9-16	83	25		9-16

A.I.C.

Tech's red hot cagers captured their fifth straight win last Saturday night against American International College, 84-72. A



LaRue Drives for Two

fantastic team effort based on a man to man defense gave Worcester its upset win over the big

The opening periods were defensive battles in which both squads were determined not to give up easy baskets. This fact was born out by the unusually low half time score, W.P.I. 29-A.I.C. 28. The action in the first period was much faster than the scoreboard showed. After the first three minutes of play, Tech was behind 3-1. About midway through this first half, the Boynton-Hillers took the lead on a ten foot jump shot by Nims. Tech retained this lead until late in the second period when Moose Stronzek of A.I.C. tied the score at 28-28. With 37 seconds to go, Tech stalled, wanting the last shot of the half. Nims was fouled with three seconds remaining and it was his point that gave the Engineers their one-point half time lead.

Captain Dave LaRue led the Engineers in the first half scoring as he hit on four corner shots and a free-throw.

Tech opened the second half with renewed drive, chalking up eleven straight points in the first four minutes. Kevin Sullivan,

who replaced the injured Ray Rogers in the starting line up, got the Engineers going with a pretty three-point play. Sullivan, who only had four points in the first half, exploded with nineteen in the second half and combined with Nims in the domination of the boards.

Worcester was ahead 40-28 before AIC could penetrate Tech's stubborn defense. AIC came up with their initial score of this half after four minutes and forty-one seconds of play. Down by as many as nineteen points, the AIC Aces refused to quit as their guards started to hit from the outside. AIC cut Tech's lead to seven points at one time but here Tech's defense returned to their stingy ways.

Don Lutz, after scrambling on all fours for the ball, passed to Larry Penoncello at midcourt. Larry fired underneath to LaRue who was all alone for the score. The bewildered AIC cagers were no match for team play like this. Worcester never gave their opponent any hope of equalling the score as they continued to pile up the points. Kevin Sullivan, set up by Penoncello, scored on a layup just as the final buzzer sounded. This left Tech on top by twelve points.

Center Bill Nims did a great job on the boards, continually out-jumping the opposing forwards. Guards Don Lutz and Larry Penoncello stymied many A.I.C. scoring bids, both players coming up with some crucial thefts. High for Tech was freshman Kevin Sullivan with 23 points followed by Dave LaRue with 18.

The half time entertainment was supplied by Desha Beamer, who put on a show of shooting and ball handling skills.

TECH				AIC			
LaRue	8	2-2	18	Cal'h'n	2	0-0	4
Nims	6	2-2	14	Lamb't	4	0-2	8
Lutz	4	4-4	14	St'zek	7	1-3	15
Pen'lo	6	5-9	17	Beynor	2	2-2	6
Sullivan	8	5-7	21	Cannon	6	2-5	14
Shaw	1	0-0	2	Dvorc'k	1	0-0	2
Bobs'e	0	0-0	0	Stone	6	1-1	13
				Op'ano	2	0-1	4
				Tucker	0	0-0	0
				Sands	2	2-2	6
Totals	33		18-24	84	32		8-16



Sullivan Scores Against AIC

SPORT SLANTS



CHEERLEADERS ?

Last year at this time it was the general opinion of most Tech students that a change was necessary in the cheerleading program. Unable to receive the consent of the administration to have girl cheerleaders from Becker, the Tech Senate decided to abolish the old cheerleaders, select some capable new men and supply them with new uniforms. Eight representatives from the sophomore class were asked to accept this task and all were willing to try. With only one man having cheering experience, these eight brave people made their first appearance on September 26th of the school year at a football game between Worcester Tech and the University of Vermont. A 41-6 victory by the visiting team didn't give them much to cheer about. The spirit of the fans had not changed as it was hoped it would. The football team finished the season with a 2-6 record and throughout the season the cheerleaders' attempt to arouse student interest was in vain. At the start of the basketball season the cheerleading squad took another big blow when two of its members went out for the hockey team and two others went out for the swimming team. Unable to make practices, they were forced to quit and only four members remained. The remaining four became totally discouraged in their attempt to reach the crowd and could see no purpose in going on.

So now, one year later we find the same problem, only the situation is worse. The main cause for our unsuccessful cheerleading program is the lack of organized school spirit. This may be due to the fact that the students do not come to the game in big groups and they feel self-conscious about cheering. In comparing the successful Assumption cheerleaders and the unsuccessful Tech cheerleaders it can be shown that the absence of fraternities at Assumption does not split the student body. When they attend basketball games they form in larger groups, and when a big group starts chanting with the cheerleaders the rest will follow. The sports editors feel that one possible solution to this problem at Tech would be to have social hours before Saturday home games at every fraternity to arouse the spirits of the students.

We would like to hear from the administration and the students on what they feel can be done to improve this situation. If enough people are concerned, we will look into this problem further.

Special recognition should go to Coach Charlie McNulty and his basketball team for their current five game winning streak. Included among these recent wins were upsets against M.I.T. and A.I.C. In Saturday's game against the A.I.C. five, freshman Kevin Sullivan took over for injured regular Ray Rogers and tossed in 21 points. Rogers will be out for the remainder of the season with a knee injury. The Engineers have three games remaining—against Williams, Nichols, and Clark—and with victories in all three they would end the season with a 12-10 record.

This week the sports editors have selected John Stumpp, a sophomore backstroker on the swimming team, as the **Athlete of the Week**. On Wednesday, February 17th John broke a school record in the 200-yard backstroke by winning his event in the time of 2:25.3 against the University of Massachusetts. The old mark was held by Roger Carlson, who swam the event in 2:28.8 in 1961.

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TECH GRAPPLERS SHUT OUT UCONN

COAST GUARD

Facing the toughest opposition of the season, the Worcester Tech Grapplers fell 6-22 to the Coast Guard Academy wrestlers on February 16. The defeat, their fifth in nine starts, has made it impossible for the team to get better than a break-even season.

Captain Russ Trask led off for Tech against the Hefty Coast Guard matmen, most of whom are regional crown-holders, by losing to Christiasen 2-3. Christiasen, incidentally tied big Milt Morin, the UMass Giant who amazed Tech spectators two weeks ago. In the 177 pound weight class, Dave Herrman was quickly pinned in 2:34 of the first period. Ron Tata's effort in the 167 pound scrap cut the Coast Guard Lead to five as he edged Barbaric, 5-4. In the process of losing the 157 pound tussle 5-0 senior John Wilson, suffered several bruised ribs at the hands of Coast Guardsman Larrabee.

In his first varsity appearance of the season, veteran Herb Brown, returning from a bout with sundry ailments, lost to Clow, who downed Brown 11-3.

Dependable Bob Locke managed to put away a Coast Guard Frosh, Rundell, sans pin, after a shaky start. In his toughest competition of the year, Locke was forced to dig deep into his wrestling bag of tricks to accomplish a 9-7 victory. After missing a takedown and then being nearly pinned by Rundell, who pulled an early 5-0 lead, Bob reversed to end the first period trailing by three. A third period reverse to break a 7-7 tie gave Locke his hardest victory.

Captain Jake Jacobson lost to a former tournament champ Kane by a 7-2 score. Coast Guard put the finishing touches on the down-trodden Techmen, when Long pinned Frosh Marti Koski in the third period.

By reversing the order of the matches Coast Guard added psychology to their brawn and experience to further hamper the scrappy Techmen.

UCONN

The Worcester Tech wrestlers scored a crunching 34-0 victory over the University of Connecticut last Friday night. It was, without a doubt, the most convincing win of the season for Coach Ray Scott's grapplers, who now own a 4-5-1 record for the season. With one dual match against Tufts, a .500 season is definitely within their grasp.

The match was highlighted by the sparkling victories of Ron Tata and Bob Locke. At the outset, it appeared that only a major catastrophe would keep the Tech wrestlers from victory, as their UConn opponents, with a record of 0-7-1, before the match, were forced to forfeit the 123 lb. class to Marty Koski, the 177 lb. class to Dave

Herrman, and the unlimited match to senior captain, Russ Trask.

The opening event, in the 130 lb. class, pitted Jake Jacobson of Tech against UConn's Junker. The match was clearly Jacobson's, as the crowd was amazed that Junker was able to last the full three periods. Near the finish, Jacobson, pressing for a pin, wrestled his opponent to a predicament which, at that time, was merely a finishing touch. The final score was 12-2 in favor of Jacobson.

In the 137 lb. event, the crowd started buzzing as Bob Locke, Tech's undefeated freshman phenom, met UConn's Snaf. An interesting note was that Snaf was nearly blind, definitely a tribute to him to be able to wrestle competitively. Locke was not to be denied in this match either, as he came out and executed a bruising take down at 0:30 of the first period. At 2:53 of the same period, Locke put Snaf in a cradle hold and pinned him.

By now, Tech was assured of victory and the crowd was shouting for a complete whitewash. The 147 lb. match saw Herb Brown, WPI sophomore, wrestle Field of UConn. This was Brown's second varsity match of the year, after being sidelined with an infected foot and mononucleosis. Brown was not in his best shape as he defeated his opponent, 4-3, but he did undoubtedly dominate the match over the last periods, accumulating a tremendous amount of riding time which was never needed in tallying the final score.

In the 157 lb. class, John Wilson, Tech senior, was opposed by Walsh of UConn. Wilson, wrestling despite a sub par back, executed a take down in the first period for a 2-0 lead. At 1:32 of the third period, the roof caved in completely on Walsh, as Wilson pinned him with a reverse nelson.

The last match of the evening had a good deal more than passing interest for the spectators. A win in the match would bring about a shutout of UConn. This 167 lb. event saw Tech's Ron Tata score a win over UConn's Havis, who had previously beaten Tata twice. In the opening minutes, it was apparent that neither man was going to take many chances and risk being pinned. At 2:32 in the first period, Tata took Havis down for two points and the lead. In the second period, Tata started on the bottom position and escaped for another point. After two periods, Tata was ahead 3-0. The crowd loved it. Havis escaped a-la-Tata in the third period and closed the gap to 3-1. In the final seconds of the match, the crowd was yelling for Tata to shoot the works and try for a pin, but the chance never opened. Nevertheless, Tata won by a score of 3-1.

The final score of the match was Tech-34 UConn-0. The crowd went home delighted at having seen such a powerful victory.

SKATERS NIP NICHOLS; OUT SCORED BY M.I.T.

Last Wednesday, the Worcester Arena was the site of a strong comeback effort by Tech's improved team, to give them a 5 to 4 win over Nichols College. The hustling pucksters trailing by one goal late in the third period ripped the nets to force the contest into a sudden death overtime period. With 2:21 gone in the overtime period Paul McDonough scored an unassisted goal to give Tech its victory.

Freshman Steve Pytko opened the scoring with an unassisted break away goal (9:11). The first period ended with Tech leading 1-0.

In the second period Nichols started to show some of its scoring power. Two goals with the clock showing 4:50 and 11:24 put them ahead 2-1.

Tech scored on a tip in by Ray Racine after he received a pass from Billy Baker. Baker, presently leading the team in scoring, has put on many fine hockey performances thus far for this season. Nichols again scored (3:40) to go ahead. Steve Boraks unassisted goal (5:24) let everyone know Tech was not finished, but the determined Nichols College added another (9:34) making the score 4-3 in their favor.

Billy Baker assisted by Racine and Rollie Bouchard scored the goal (13:01) that put the game into overtime. McDonough then

slapped in the deciding mark to give Tech its victory.

Freshman goalie, George Gammache, did an outstanding job of protecting the cage the whole game. Although he made only 33 saves, he showed poise and agility turning away many Nichols attempts with some eye-catching saves.

M. I. T. HOCKEY

Despite a fine last period effort, the Worcester Tech hockey team fell victim to the skaters from M.I.T. last Friday night. Both teams played good hockey and the game was not decided until the last few minutes of play. The deciding factor of the game was M.I.T.'s goalie, who had 40 saves, many of these on what looked like sure goals. Outstanding performances for Tech were turned in by Ray Racine, who scored 3 of Tech's goals, and defenseman Steve Cotter, who once again played 60 minutes of fine hockey.

The game started slowly with neither team being able to put together an adequate attack. Tech controlled the play, but M.I.T.'s net-minder was able to thwart the many scoring threats. Near the end of the period, however, Tech struck twice. Paul McDonough took a pass from Steve Pytko and fire it in for the score. The trio of Baker, Bouchard, and Racine teamed up for the second score, with Racine getting the goal, and the Engineers went into the locker room with a 2-0 lead.

The second period belonged exclusively to M.I.T. They were a new team, and before Tech could put out the fire they had scored three times and taken the lead, 3-2.

As the third period began, Tech showed that they were far from dead. After just 25 seconds of play, Ray Racine scored the tying goal on a beautiful pass from Rollie Bouchard. M.I.T. was quick to retaliate for a minute later they scored again to take back the lead. Bill Baker brought Tech back into the game as he took a pass from Steve Pytko and drove it by the M.I.T. goalie to once again tie the game. Four minutes later M.I.T. struck again and once more the Boynton Hillers were forced to battle from behind. Not eager to lose, they continued to fight and it paid off a minute later; the combination of Baker, Bouchard and Racine again clicked, with the Racine again getting the needed tally. With over ten minutes left to play, the two teams pitted themselves for the ensuing battle. For ten minutes they played faultless hockey and it looked as though the game would end in a tie. Then, with less than a minute left, a loose puck slid out in front of the Tech cage. An M.I.T. player slapped at it and the red light flashed for a score. Tech fought hard till the final buzzer, but to no avail. The game ended 6-5.

This was Tech's second loss this year to their arch-rivals from Cambridge, both decided by one goal. Their previous meeting, at M.I.T., ended 3-2. Tech has one league game left to play. This game, with the Holy Cross Crusaders, will determine whether or not they will be in the playoffs, to be held at the Worcester Arena on February 25th and 27th.

SWIM TEAM LOSES; STUMPP SETS MARK

On Wednesday, February 17, 1965 the Worcester Tech Swimming team encountered a formidable opponent in the team of UMass. The results of the meet showed Worcester Tech on the short end of a 53 to 42 decision. The meet was decided in the 400 yd. freestyle relay, the last event.

UMass jumped off to a commanding 13-3 lead, but in the 60 yd. freestyle, Elliot Whipple and Neil Durkee teamed up to sweep the event. The Worcester Tech divers, Dick Holler and Dick Andrews, swept the diving competition to put WPI in the lead 22-21. After taking a second in the 200 yd. Butterfly, Elliot Whipple and John Stumpp won the next two events for Worcester. Whipple won the 100 yard Freestyle and Stumpp won the 200 yard Backstroke.

With UMass winning the 500 yard Freestyle and 200 yard Breast-stroke events, WPI was trailing 46-42 going into the last event. The meet hinged on the last relay and UMass was equal

to the situation, just touching out the team from WPI for the victory.

The outstanding individual efforts for Worcester Tech came from John Stumpp, Elliot Whipple, and James Nystrom. In winning the 200 yard Backstroke, Stumpp broke the college record by 3.5 seconds with the winning time of 2:25.3. The old record was held by Roger Carlson and was set in 1961. Elliot Whipple was WPI's only double winner of the meet, winning both the 60 yard and 100 yard Freestyle events. Whipple's time of 54.7 seconds for the 100 yard Freestyle is exceptionally fast. In the 500 yard Freestyle Jim Nystrom broke his own college record by more than 11 seconds, but since he was edged by the UMass swimmer it is not an official record.

This Saturday, February 27, the Worcester Tech Swimming Team finishes its season with the City Championship Meet versus Holy Cross. The meet, scheduled for 2:00 P.M., promises to be a close one.

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BOWLING TOURNEY

With the Inter-Fraternity Bowling Tournament almost over, it would be appropriate at this time to give the reader an insight as to how the scoring is done and how much this sport counts, toward the overall Sport's Trophy.

First let us consider the scoring procedure. Each team is made up of four bowlers. At a match, these bowlers will bowl three games. Scoring is based on total pins knocked down per game and match. Players are not considered individually. A point is given for each of the following: highest number of pins knocked down per game; highest number of pins knocked down per match. Therefore the highest score a team could obtain in a match would be 4, winning all three games plus the match. The losing team in the situation described above would be penalized 4 points. Thus the scoring is analogous to wins and losses. If a team wins 2 games, loses the third, and also loses total pins knocked down for the match, its record for that match would be

2-2. Accordingly, the opposing team would be 2-2 for that match also.

How much does bowling count toward the Sport's Trophy? In answering this question it must be remembered that bowling is categorized as a minor sport as opposed to a major sport. It is along these lines that scoring is done for the Sport's Trophy. Minor sports are counted in the following manner. The first place team receives 39 points; the second 38; the third 37. This one point drop per place in standing continues right down to the last team. In a major sport the scoring is quite similar. The first place team receive 49 points; the second 47; the third 45. This two point drop continues right down to the last place team. Classified as major sports are Basketball, Swimming, Softball, and Track. The minor sports are Volleyball, Ping Pong, and Bowling.

The following are pertinent statistics concerning the bowling tourney as of Saturday, February 20, 1965. Also included is the Inter-Fraternity standings toward the Sport's Trophy with just one sport (Volleyball) concluded.

BOWLING STATISTICS

Team	Records	Pct.
TKE	21-7	.750
SH'D	19-9	.678
PKT	15-9	.625
PSK	17-11	.607
AEII	18-14	.562
SAE	16-6	.500
ATO	17-19	.472
LCA	11-17	.393
PGD	7-17	.292
SP	8-24	.250
SPE	2-14	.125

Inter-Fraternity Standings

Team	Points
PKT	39
PGD	38
AEII	37
SPE	36
PSK	35
LCA	34
SAE	33
ATO	32
TC	31
SH' D	30
TKE	29
SP	28

First Match For Fencing Team

WPI Fencing Team takes on Holy Cross and Brandeis, 27 Feb. at Alden

The Tech Fencing Team will take on its first varsity match against Holy Cross and Brandeis, Saturday the 27th of February at Alden Memorial, from 2:00 to 6:00 P.M.

The match will be conducted in the three fencing weapons, foil, epee, and saber. Spectators will find this event highly entertaining and exciting, especially if one has never witnessed a fencing match before.

The following Tech men will participate in Saturday's match.

David Wilson—1st Captain—Foil; Robert Bertrand—2nd Captain—Epee; Ivan Beggs—Foil; Norman Brunell—Foil; Richard Brodeur—Foil; David Clarke—Epee; John Gahagan—Saber; Robert Gemmer—Foil; Charles Klemm—Epee; John Kokoszka—Saber; William McCann—Saber; William Remillong—Saber.

PROFESSORS

(Continued from Page 1)

hours are long and tedious while the remuneration is solely self-satisfaction.

HALL TO RUN FOR RE-ELECTION TO SCHOOL COMMITTEE

A member of the Worcester Tech faculty, Professor Robert J. Hall has recently announced that he is a candidate for re-election to the Paxton School Committee. Professor Hall was first elected

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to the position in 1959 and is presently serving as Chairman of the Committee. He is also a member of the School Needs Committee and vice-chairman of the School Building Committee.

Mr. Hall is an associate professor in the Mechanical Engineering Department at Tech and has been a member of the faculty since 1956. He received his Bachelor of Science Degree at the University of Massachusetts and a Master of Science at Cornell University where he taught for two years.

Professor Hall, a father of four children, served in the Coast Guard during World War II and in the Air Force during the Korean War.

COUTH COLUMN

(Continued from Page 2)

namesake Raymond Morin of the Telegram said that they hit a new high of achievement. Sounds like it might be worth hearing this Sunday at the Worcester Art Museum at three for free.

I do wish that whoever is in charge of coordinating the Centennial programs would make a

little effort to make it interesting to the student body. So far it has been a complete botch, and the History lecture was a triumph in absurdity. Why oh why did anyone want to have an old man who couldn't even stand up straight read a very scholarly paper, which would be of interest only to a died (or dead) in the wool historian, to a group of Tech students, who, for the most part, wouldn't care if they were the first people on earth, thus eliminating both the existence of and the need for any history at all. Even one of our Deans commented that he couldn't sit still during, let alone enjoy, the lecture.

Couthful things such as History and English, can be, and are to many people, a lot of fun. Why then make it look like a study of the world from the inside of a tomb.

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MILITARY COTILLION

What has been described in the past as one of the most enjoyable dances at Tech will take place this year on Saturday night, March 6 from 8:00 to 12:00 P.M., at Alden Memorial. To insure that this year's Military Cotillion is a success, John Czarniecki and his entertainment committee started preparations in January. The following students are part of this committee; Bill Galebach Business Manager, Pat Moran and Bill Hines Publicity, Bob Hawes Ticket Sales, Bob Rapp and Hal Wright Entertainment, Bill Jo-beret Refreshments, and Jack Stockhaus Decorations.

All students, whether enrolled in the ROTC or not, are cordially invited to attend. Tickets are \$4.00 a couple. Dress for the dance is semi-formal, dark suit and tie. Although cadets are encouraged to wear their green uniforms with white shirt and black bow tie, they may, if they desire, wear the aforementioned attire.

RESEARCH TEST AND DEVELOPMENT LABORATORIES OF THE NAVY

Representatives of seven civilian research, test and development laboratories of the Navy located in Washington, D. C., Maryland and Virginia will visit on March 4, 1965, to interview candidates for degrees in engineering, mathematics, and physical science.

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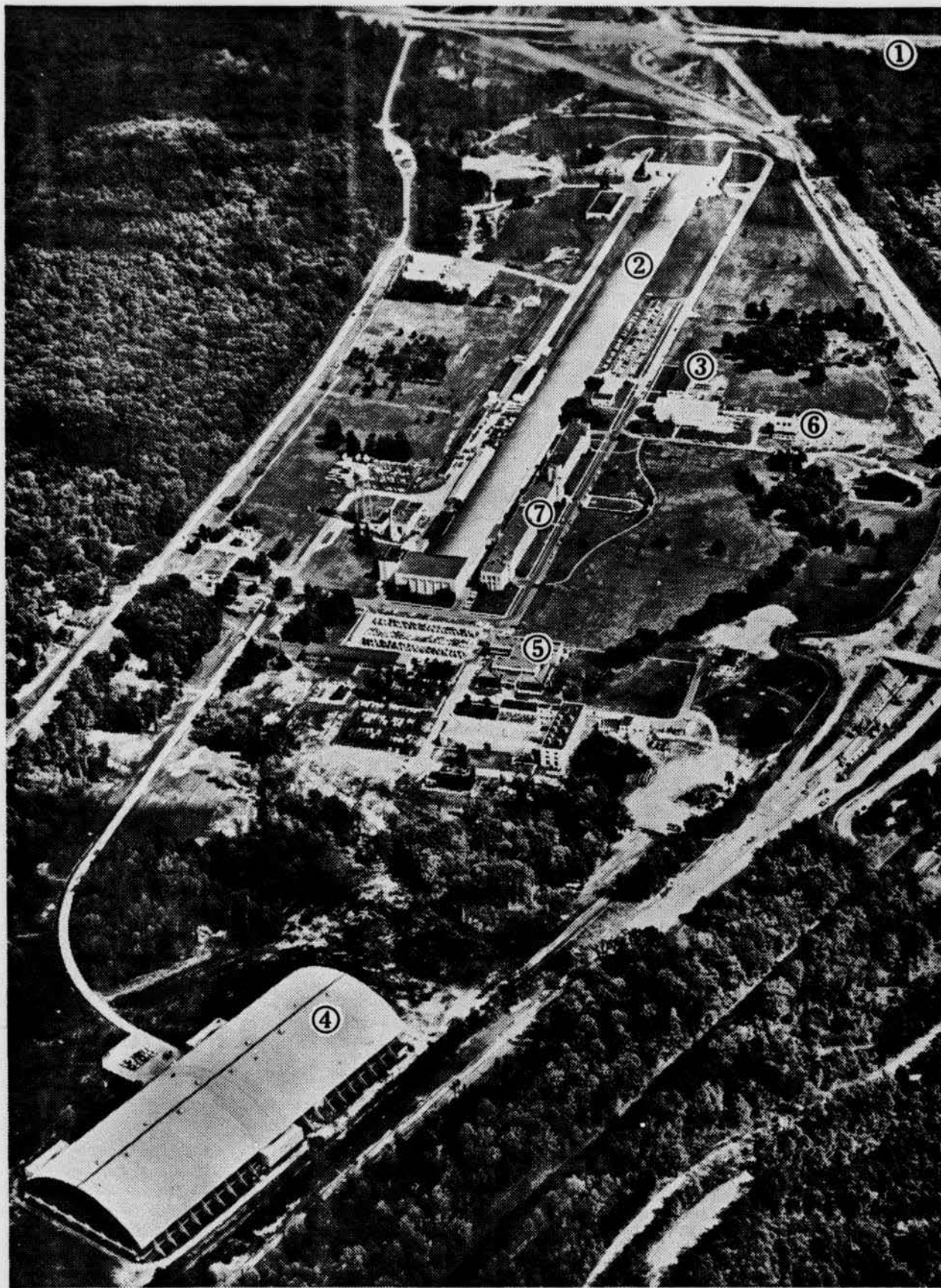
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Of course, from this height you can't see much detail, which makes the imposing expanse of the two main buildings all the more intriguing. Perhaps you can guess their functions, but it's also what you can't see (and this is summarized in the adjoining column) that makes the David Taylor Model Basin a completely unique fundamental and applied research organization — and a place you should seriously consider for your career as a professional scientist or engineer. As the Navy's advanced facility for research into submarine, surface ship, aircraft and missile design concepts, the Model Basin can offer the young graduate certain specific opportunities hard to find anywhere else.

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④ In this giant new Maneuvering and Seakeeping facility, both fixed and free-running models may be tested under any sea-state condition. You may also work with the High-Speed Phenomena Division at Langley Field, Virginia.

⑤ AERODYNAMICS LABORATORY facilities include several wind tunnels—ranging from subsonic through hypersonic at Mach 10—which are used to determine and improve static stability, control and heat transfer characteristics of helicopters, VTOL's, supersonic aircraft, missiles, etc. Air flow studies also involve bomb design, bridge structures, aircraft turbulence when approaching carriers, and other government and private problems.

⑥ The unique STRUCTURAL MECHANICS LABORATORY facilities at Carderock are the new pressure tanks which permit the study, by means of large structural models, of the hull structures for deep diving submarines and deep sea research vehicles to reach all ocean depths. Additional Structural Mechanics Laboratory facilities are scattered throughout the 186 acres, and include a tridimensional Static-Load Frame, a Pentagonal Test Pond, Explosion Pits, and a 600,000-Pound Universal Testing Machine. With these facilities, Laboratory scientists and engineers conduct studies aimed at improving the hull structure and increasing the resistance of the Navy's ships to enemy attack. This requires development of fundamental, theoretical approaches of load and response, and development of engineering solutions based on the increased understanding. A substantial portion of the ship protection research is carried out at the Underwater Explosions Research Division of this Laboratory located at Portsmouth, Virginia.

⑦ The ACOUSTICS AND VIBRATION LABORATORY was just established to intensify research and development of ships of improved detection capability, and reduced vibrations and underwater sound output. Fundamental and applied research in hydrodynamics, structural acoustics, mechanical vibrations, and signal processing are supplemented by conduct of acoustic and vibration trials, and development of acoustic and vibration instrumentation.

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INTERVIEWS

Representatives from The David Taylor Model Basin will hold On-Campus Interviews

Thurs., March 4th

Please contact your College Placement Officer to arrange an appointment.